SEVERN TRENT SERVICES

STL Seattle
5755 8th Street East
Tacoma, WA 98424

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TRANSMITTAL MEMORANDUM

DATE: February 6, 2002

TO: Janette Rau
URS Corporation
1501 4th Ave Suite 1400
Seattle, WA 98101-1616

PROJECT: Former NPD Lab SI, Troutdale, OR

REPORT NUMBER: 103253

TOTAL NUMBER OF PAGES: 103

Enclosed are the test results for four samples received at STL Seattle on January 9, 2002.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Dawn Werner
Project Manager

Sample Identification:

Lab. No.	Client ID	Date/Time Sampled	Matrix
103253-1	PD-001	01-08-02 13:15	oil
103253-2	PD-002	01-08-02 13:40	oil
103253-3	PD-302	01-08-02 13:50	oil
103253-4	TB	01-08-02 10:00	liquid

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ANALYTICAL NARRATIVE

Client: URS Corporation

Date: February 15, 2002

Project: Former NPD Lab SI, Troutdale, OR

Lab No.: 103253

Delivered By: Submitter

Condition of samples upon receipt: Samples were received in good condition. Cooler temperatures have been recorded on the cooler receipt form included in the chain of custody section of this package. Chain of custody was in order.

Sample Identification:

Lab. No.	Client ID	Date Sampled	Matrix
103253-1	PD-001	01-08-02	oil
103253-2	PD-002	01-08-02	oil
103253-3	PD-302	01-08-02	oil
103253-4	TB	01-08-02	liquid

SAMPLE EXTRACTION AND ANALYSIS

VOLATILE ORGANICS

Samples 103253-1 through 103253-4 were analyzed for volatile organics in accordance with EPA Method 8260B. The samples were prepared on 1-15-02 and analyzed on 1-16-02, which was within the required holding time.

The percent recovery of ethylbenzene-d10 (surrogate) in sample 103253-1 exceeded the quality control limits due to matrix interferences.

The percent recovery of dibromofluoromethane (surrogate) in sample 103253-4 and the blank spike associated with sample batch ITS1412 exceeded the quality control limits. No action was taken on this outlier based on acceptable recoveries of the remaining five surrogate compounds.

VOLATILE ORGANICS CONTINUED

All other quality control was within the acceptance limits.

No other difficulties were encountered during the volatile organic analyses.

SEMIVOLATILE ORGANICS

Samples 103253-1 through 103253-3 were analyzed for semivolatile organics in accordance with EPA Method 8270C. The samples were extracted on 1-10-02 and analyzed on 1-11-02, which was within the required holding time.

The percent recoveries of several of the surrogate compounds in sample 103253-1 exceeded the quality control limits due to matrix interferences.

The reported values for naphthalene and 2-methylnaphthalene in sample 103253-1 exceeded the instrument calibration range. The sample underwent a secondary dilution with satisfactory results.

The percent recovery of 2,4,6-tribromophenol (surrogate)in sample 103253-2 exceeded the quality control limits due to matrix interferences.

The percent recoveries of nitrobenzene–d5 and 2-fluorophenol (surrogates) in sample 103253-3 exceeded the quality control limits due to matrix interferences.

All other quality control was within the acceptance limits.

No other difficulties were encountered during the semivolatile organic analyses.

ORGANOCHLORINE PESTICIDES AND PCBs

Samples 103253-1 through 103253-3, 103253-3MS and 103253-3MSD were analyzed for organochlorine pesticides and PCBs in accordance with EPA Methods 8081/8082. The samples were prepared/extracted on 1-17-02 and analyzed on 1-28-02, which was within the required holding time.

All reported values underwent second column confirmation. The data are flagged "C1" or "C2" as appropriate.

The percent recovery of decachlorobiphenyl (surrogate) in samples 103253-2, 103253-3, 103253S03 and 103253D03 exceeded the quality control limits due to matrix interferences.

The percent recoveries and/or the relative percent difference values for several of the compounds in the matrix spike / matrix spike duplicate analysis associated with sample 103253-3 exceeded the quality control limits. Matrix interferences are indicated based on acceptable recoveries of the associated blank spike (PE1453).

An end of run continuing calibration was not present in the analytical sequence associated with sample 103253-1. PCB was not identified in the sample.

Client: URS Corporation Date: February 15, 2002

Project: Former NPD Lab SI, Troutdale, OR Lab No.: 103253

ORGANOCHLORINE PESTICIDES AND PCBs CONTINUED
All other quality control was within the acceptance limits.

No other difficulties were encountered during the chlorinated pesticides and PCB analyses.

CYANIDE
Samples 103253-1 through 103253-3 were analyzed for total cyanide in accordance with EPA Method 9012/9013. The samples were analyzed on 1-15-02, which was within the required holding time.

The percent recovery in the matrix spike analysis of sample 103253-1 exceeded the quality control limits. Matrix interferences are indicated based on acceptable recoveries of the associated blank spike (989-132).

All other quality control was within the acceptance limits.

No other difficulties were encountered during the total cyanide analyses.

IGNITABILITY
Samples 103253-1 through 103253-3 were analyzed for ignitability in accordance with EPA Method 1010. The samples were analyzed on 1-21-02.

All quality control was within the acceptance limits.

No difficulties were encountered during the ignitability analyses.

CORROSIVITY
Samples 103253-1 through 103253-3 were analyzed for corrosivity in accordance with EPA Method 9040. The samples were analyzed on 1-17-02.

All quality control was within the acceptance limits.

No difficulties were encountered during the corrosivity analyses.

REACTIVE CYANIDE
Samples 103253-1 through 103253-3 were analyzed for reactive cyanide in accordance with Chap. 7.3.3. The samples were analyzed on 1-18-02, which was within the required holding time.

The percent recovery in the matrix spike analysis of sample 103253-1 exceeded the quality control limits. Matrix interferences are indicated based on acceptable recoveries of the associated blank spike (989-134).

All other quality control was within the acceptance limits.

No other difficulties were encountered during the reactive cyanide analyses.

Client: URS Corporation

Date: February 15, 2002

Project: Former NPD Lab SI, Troutdale, OR

Lab No.: 103253

REACTIVE SULFIDE

Samples 103253-1 through 103253-3 were analyzed for reactive sulfide in accordance with Chap. 7.3.4. The samples were analyzed on 1-15-02, which was within the required holding time.

All quality control was within the acceptance limits.

No difficulties were encountered during the reactive sulfide analyses.

TOTAL METALS

Samples 103253-1 through 103253-3, 103253-2Dup, 103253-2MS and 103253-2MSD were analyzed for total metals in accordance with EPA Methods 6010/6020/7471. The samples were digested and analyzed on 1-11-02 for ICP and ICP-MS analyses. The samples were digested on 1-17-02 and analyzed on 1-20-02 for mercury. All metals analyses were performed within the required holding time.

The relative percent difference values for lead, nickel and silver in the duplicate analysis of sample 103253-02 exceeded the quality control limits due to analyte levels near the practical quantitation limits.

All other quality control was within the acceptance limits.

No other difficulties were encountered during the total metals analyses.

Metals data are submitted in CLP like format.

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/15/02
Date Analyzed:	1/16/02
% Solids	
Dilution Factor	1000

Volatile Organics by USEPA Method 5030/8260B

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	104		84	114
Fluorobenzene	102		92	110
Toluene-D8	105		92	106
Ethylbenzene-d10	117	X9	88	110
Bromofluorobenzene	105		81	117

Sample results are on an as received basis.

Analyte	**Result (ug/kg)**		**PQL**	**MRL**	**Flags**
Dichlorodifluoromethane	ND		236000	118000	
Chloromethane	ND		236000	118000	
Vinyl chloride	ND		236000	118000	
Bromomethane	ND		471000	236000	
Chloroethane	ND		236000	118000	
Trichlorofluoromethane	ND		236000	118000	
1,1-Dichloroethene	ND		236000	118000	
1,1,2-Trichlorotrifluoroethane	ND		236000	118000	
Carbon disulfide	ND		236000	118000	
Acetone	ND		1180000	589000	
Methylene chloride	ND		236000	118000	
Methyl tert-butyl ether	ND		236000	118000	
trans-1,2-Dichloroethene	ND		236000	118000	
1,1-Dichloroethane	ND		236000	118000	
2-Butanone	ND	R	1180000	589000	
cis-1,2-Dichloroethene	ND		236000	118000	
Bromochloromethane	ND		236000	118000	
Chloroform	ND		236000	118000	
1,1,1-Trichloroethane	ND		236000	118000	
Carbon Tetrachloride	ND		236000	118000	
Benzene	ND		236000	118000	
1,2-Dichloroethane	ND		236000	118000	
Trichloroethene	ND		236000	118000	
1,2-Dichloropropane	ND		236000	118000	
Bromodichloromethane	ND		236000	118000	
cis-1,3-Dichloropropene	ND		236000	118000	

MW 3/20/02

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Volatile Organics by USEPA Method 5030/8260B data for 103253-01 continued...

Analyte	Result (ug/kg)	PQL	MRL
4-Methyl-2-pentanone	ND	1180000	589000
Toluene	391000	236000	118000
trans-1,3-Dichloropropene	ND	236000	118000
1,1,2-Trichloroethane	ND	236000	118000
Tetrachloroethene	ND	236000	118000
2-Hexanone	ND R	1180000	589000
Dibromochloromethane	ND	236000	118000
1,2-Dibromoethane	ND	236000	118000
Chlorobenzene	ND	236000	118000
Ethylbenzene	478000	236000	118000
1,1,1,2-Tetrachloroethane	ND	236000	118000
m,p-Xylene	1860000	471000	236000
o-Xylene	1030000	236000	118000
Styrene	ND	236000	118000
Bromoform	ND	236000	118000
Isopropylbenzene	393000	236000	118000
1,1,2,2-Tetrachloroethane	ND	236000	118000
1,3-Dichlorobenzene	ND	236000	118000
1,4-Dichlorobenzene	ND	236000	118000
1,2-Dichlorobenzene	ND	236000	118000
1,2-Dibromo-3-chloropropane	ND	236000	118000
1,2,4-Trichlorobenzene	ND	236000	118000
Cyclohexane	ND	236000	118000
Methyl acetate	ND	1180000	589000
Methylcyclohexane	ND	236000	118000

MW 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/15/02
Date Analyzed:	1/16/02
% Solids	
Dilution Factor	1000

Volatile Organics by USEPA Method 5030/8260B

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Dibromofluoromethane	108		84	114
Fluorobenzene	108		92	110
Toluene-D8	105		92	106
Ethylbenzene-d10	99.7		88	110
Bromofluorobenzene	98.7		81	117

Sample results are on an as received basis.

Analyte	Result (ug/kg)	PQL	MRL	Flags
Dichlorodifluoromethane	ND	40500	20300	
Chloromethane	ND	40500	20300	
Vinyl chloride	ND	40500	20300	
Bromomethane	ND	81100	40500	
Chloroethane	ND	40500	20300	
Trichlorofluoromethane	ND	40500	20300	
1,1-Dichloroethene	ND	40500	20300	
1,1,2-Trichlorotrifluoroethane	ND	40500	20300	
Carbon disulfide	ND	40500	20300	
Acetone	ND	203000	101000	
Methylene chloride	ND	40500	20300	
Methyl tert-butyl ether	ND	40500	20300	
trans-1,2-Dichloroethene	ND	40500	20300	
1,1-Dichloroethane	ND	40500	20300	
2-Butanone	ND R	203000	101000	
cis-1,2-Dichloroethene	ND	40500	20300	
Bromochloromethane	ND	40500	20300	
Chloroform	ND	40500	20300	
1,1,1-Trichloroethane	ND	40500	20300	
Carbon Tetrachloride	ND	40500	20300	
Benzene	ND	40500	20300	
1,2-Dichloroethane	ND	40500	20300	
Trichloroethene	ND	40500	20300	
1,2-Dichloropropane	ND	40500	20300	
Bromodichloromethane	ND	40500	20300	
cis-1,3-Dichloropropene	ND	40500	20300	

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Volatile Organics by USEPA Method 5030/8260B data for 103253-02 continued...

Analyte	Result (ug/kg)	PQL	MRL
4-Methyl-2-pentanone	ND	203000	101000
Toluene	ND	40500	20300
trans-1,3-Dichloropropene	ND	40500	20300
1,1,2-Trichloroethane	ND	40500	20300
Tetrachloroethene	ND	40500	20300
2-Hexanone	ND R	203000	101000
Dibromochloromethane	ND	40500	20300
1,2-Dibromoethane	ND	40500	20300
Chlorobenzene	ND	40500	20300
Ethylbenzene	188000	40500	20300
1,1,1,2-Tetrachloroethane	ND	40500	20300
m,p-Xylene	692000	81100	40500
o-Xylene	244000	40500	20300
Styrene	ND	40500	20300
Bromoform	ND	40500	20300
Isopropylbenzene	ND	40500	20300
1,1,2,2-Tetrachloroethane	ND	40500	20300
1,3-Dichlorobenzene	ND	40500	20300
1,4-Dichlorobenzene	ND	40500	20300
1,2-Dichlorobenzene	ND	40500	20300
1,2-Dibromo-3-chloropropane	ND	40500	20300
1,2,4-Trichlorobenzene	ND	40500	20300
Cyclohexane	ND	40500	20300
Methyl acetate	ND	203000	101000
Methylcyclohexane	ND	40500	20300

MN 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/15/02
Date Analyzed:	1/16/02
% Solids	
Dilution Factor	1000

Volatile Organics by USEPA Method 5030/8260B

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	107		84	114
Fluorobenzene	104		92	110
Toluene-D8	101		92	106
Ethylbenzene-d10	99.3		88	110
Bromofluorobenzene	97.6		81	117

Sample results are on an as received basis.

Analyte	**Result (ug/kg)**		**PQL**	**MRL**	**Flags**
Dichlorodifluoromethane	ND		39900	19900	
Chloromethane	ND		39900	19900	
Vinyl chloride	ND		39900	19900	
Bromomethane	ND		79800	39900	
Chloroethane	ND		39900	19900	
Trichlorofluoromethane	ND		39900	19900	
1,1-Dichloroethene	ND		39900	19900	
1,1,2-Trichlorotrifluoroethane	ND		39900	19900	
Carbon disulfide	ND		39900	19900	
Acetone	ND		199000	99700	
Methylene chloride	ND		39900	19900	
Methyl tert-butyl ether	ND		39900	19900	
trans-1,2-Dichloroethene	ND		39900	19900	
1,1-Dichloroethane	ND		39900	19900	
2-Butanone	ND	R	199000	99700	
cis-1,2-Dichloroethene	ND		39900	19900	
Bromochloromethane	ND		39900	19900	
Chloroform	ND		39900	19900	
1,1,1-Trichloroethane	ND		39900	19900	
Carbon Tetrachloride	ND		39900	19900	
Benzene	ND		39900	19900	
1,2-Dichloroethane	ND		39900	19900	
Trichloroethene	ND		39900	19900	
1,2-Dichloropropane	ND		39900	19900	
Bromodichloromethane	ND		39900	19900	
cis-1,3-Dichloropropene	ND		39900	19900	

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Volatile Organics by USEPA Method 5030/8260B data for 103253-03 continued...

Analyte	Result (ug/kg)	PQL	MRL
4-Methyl-2-pentanone	ND	199000	99700
Toluene	ND	39900	19900
trans-1,3-Dichloropropene	ND	39900	19900
1,1,2-Trichloroethane	ND	39900	19900
Tetrachloroethene	ND	39900	19900
2-Hexanone	ND R	199000	99700
Dibromochloromethane	ND	39900	19900
1,2-Dibromoethane	ND	39900	19900
Chlorobenzene	ND	39900	19900
Ethylbenzene	135000	39900	19900
1,1,1,2-Tetrachloroethane	ND	39900	19900
m,p-Xylene	436000	79800	39900
o-Xylene	181000	39900	19900
Styrene	ND	39900	19900
Bromoform	ND	39900	19900
Isopropylbenzene	ND	39900	19900
1,1,2,2-Tetrachloroethane	ND	39900	19900
1,3-Dichlorobenzene	ND	39900	19900
1,4-Dichlorobenzene	ND	39900	19900
1,2-Dichlorobenzene	ND	39900	19900
1,2-Dibromo-3-chloropropane	ND	39900	19900
1,2,4-Trichlorobenzene	ND	39900	19900
Cyclohexane	ND	39900	19900
Methyl acetate	ND	199000	99700
Methylcyclohexane	ND	39900	19900

MN 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	TB
Lab ID:	103253-04
Date Received:	1/9/02
Date Prepared:	1/10/02
Date Analyzed:	1/10/02
% Solids	-
Dilution Factor	1

Volatile Organics by USEPA Method 5030/8260B

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Dibromofluoromethane	83.9	N	85	114
Fluorobenzene	91.8		91	110
Toluene-D8	95.2		92	107
Ethylbenzene-d10	102		86	108
Bromofluorobenzene	98.5		87	110

Analyte		**Result (ug/L)**	**PQL**	**MRL**	**Flags**
Dichlorodifluoromethane	ND		1	0.5	
Chloromethane	ND		1	0.5	
Vinyl chloride	ND		1	0.5	
Bromomethane	ND		2	1	
Chloroethane	ND		1	0.5	
Trichlorofluoromethane	ND		1	0.5	
1,1-Dichloroethene	ND		1	0.5	
1,1,2-Trichlorotrifluoroethane	ND		1	0.5	
Carbon disulfide	ND		1	0.5	
Acetone	ND		5	2.5	
Methylene chloride	ND		1	0.5	
Methyl tert-butyl ether	ND		1	0.5	
trans-1,2-Dichloroethene	ND		1	0.5	
1,1-Dichloroethane	ND		1	0.5	
2-Butanone	ND		5	2.5	
cis-1,2-Dichloroethene	ND		1	0.5	
Bromochloromethane	ND		1	0.5	
Chloroform	ND		1	0.5	
1,1,1-Trichloroethane	ND		1	0.5	
Carbon Tetrachloride	ND		1	0.5	
Benzene	ND		1	0.5	
1,2-Dichloroethane	ND		1	0.5	
Trichloroethene	ND		1	0.5	
1,2-Dichloropropane	ND		1	0.5	
Bromodichloromethane	ND		1	0.5	
cis-1,3-Dichloropropene	ND		1	0.5	

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Volatile Organics by USEPA Method 5030/8260B data for 103253-04 continued...

Analyte	Result (ug/L)	PQL	MRL
4-Methyl-2-pentanone	ND	5	2.5
Toluene	ND	1	0.5
trans-1,3-Dichloropropene	ND	1	0.5
1,1,2-Trichloroethane	ND	1	0.5
Tetrachloroethene	ND	1	0.5
2-Hexanone	ND R	5	2.5
Dibromochloromethane	ND	1	0.5
1,2-Dibromoethane	ND	1	0.5
Chlorobenzene	ND	1	0.5
Ethylbenzene	ND	1	0.5
1,1,1,2-Tetrachloroethane	ND	1	0.5
m,p-Xylene	ND	2	1
o-Xylene	ND	1	0.5
Styrene	ND	1	0.5
Bromoform	ND	1	0.5
Isopropylbenzene	ND	1	0.5
1,1,2,2-Tetrachloroethane	ND	1	0.5
1,3-Dichlorobenzene	ND	1	0.5
1,4-Dichlorobenzene	ND	1	0.5
1,2-Dichlorobenzene	ND	1	0.5
1,2-Dibromo-3-chloropropane	ND	1	0.5
1,2,4-Trichlorobenzene	ND	1	0.5
Cyclohexane	ND	1	0.5
Methyl acetate	ND	5	2.5
Methylcyclohexane	ND	1	0.5

MN 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/10/02
Date Analyzed:	1/11/02
% Solids	
Dilution Factor	100

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	-	X9	45	135
2 - Fluorobiphenyl	57		51	135
p - Terphenyl - d14	341	X9	45	135
Phenol - d5	-	X9	43	140
2 - Fluorophenol	-	X9	37	140
2,4,6 - Tribromophenol	30	X9	36	140

Sample results are on an as received basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Phenol	ND R	9290	1860	
bis(2-Chloroethyl)ether	ND	9290	1770	
2-Chlorophenol	ND	9290	1390	
2-Methylphenol	ND	9290	1120	
3- & 4-Methylphenol	ND	9290	1380	
N-nitroso-di-n-propylamine	ND	9290	1020	
Hexachloroethane	ND	9290	1770	
Nitrobenzene	ND	9290	1270	
Isophorone	ND	9290	1300	
2-Nitrophenol	ND	9290	1300	
2,4-Dimethylphenol	ND	9290	1020	
Benzoic Acid	ND	46500	3160	
bis(2-Chloroethoxy)methane	ND	9290	1120	
2,4-Dichlorophenol	ND	9290	1020	
Naphthalene	960000 ~~707000~~ J	929	435	E D
4-Chloroaniline	ND R	9290	864	
Hexachlorobutadiene	ND	9290	836	
4-Chloro-3-methylphenol	ND	9290	1020	
2-Methylnaphthalene	382000 ~~276000~~ J	929	145	E D
Hexachlorocyclopentadiene	ND R	9290	1310	
2,4,6-Trichlorophenol	ND	9290	1240	
2,4,5-Trichlorophenol	ND	9290	1670	
2-Chloronaphthalene	ND	929	279	
2-Nitroaniline	ND	9290	1210	
Dimethylphthalate	ND	9290	1020	
Acenaphthylene	1300 J	929	405	

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STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103253-01 continued...

Analyte		Result (ug/kg)		PQL	MDL
2,6-Dinitrotoluene	ND	R		9290	1670
3-Nitroaniline	ND	R		9290	1580
Acenaphthene		6780	J	929	460
2,4-Dinitrophenol	ND	R		23200	2230
4-Nitrophenol	ND			23200	1770
Dibenzofuran	ND			9290	1080
2,4-Dinitrotoluene	ND			9290	1210
Diethylphthalate	ND			9290	1580
4-Chlorophenylphenylether	ND			9290	1560
Fluorene		8270	J	929	434
4-Nitroaniline	ND	R		9290	1580
4,6-Dinitro-2-methylphenol	ND			23200	3440
N-Nitrosodiphenylamine	ND			9290	743
4-Bromophenylphenylether	ND			9290	1240
Hexachlorobenzene	ND			9290	1020
Pentachlorophenol	ND			9290	1950
Phenanthrene		25900	J	929	198
Anthracene	ND	R		929	234
Di-n-butylphthalate	ND	R		46500	8080
Fluoranthene		1770	J	929	434
Pyrene	ND	R		929	307
Butylbenzylphthalate	ND			9290	1770
3,3'-Dichlorobenzidine	ND			9290	1020
Benzo(a)anthracene	ND			1860	567
Chrysene	ND			1860	545
bis(2-Ethylhexyl)phthalate	ND			23200	3810
Di-n-octylphthalate	ND			9290	2420
Benzofluoranthenes	ND			1860	409
Benzo(a)pyrene	ND			929	545
Indeno(1,2,3-cd)pyrene	ND			929	217
Dibenz(a,h)anthracene	ND			929	217
Benzo(g,h,i)perylene	ND			929	153
Carbazole	ND			23200	3620
Atrazine	ND			9290	1580
Biphenyl		25600	J	9290	1570
Acetophenone	ND	R		9290	1050
Benzaldehyde	ND	R		9290	787

MW 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001 - dilution
Lab ID:	103253L01
Date Received:	-
Date Prepared:	1/10/02
Date Analyzed:	1/11/02
% Solids	
Dilution Factor	1000

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	-	X8	45	135
2 - Fluorobiphenyl	-	X8	51	135
p - Terphenyl - d14	-	X8	45	135
Phenol - d5	-	X8	43	140
2 - Fluorophenol	-	X8	37	140
2,4,6 - Tribromophenol	-	X8	36	140

Sample results are on an as received basis.

Analyte		**Result (ug/kg)**	**PQL**	**MDL**	**Flags**
Phenol	ND		92900	18600	
bis(2-Chloroethyl)ether	ND		92900	17700	
2-Chlorophenol	ND		92900	13900	
1,3-Dichlorobenzene	ND		92900	13000	
1,4-Dichlorobenzene	ND		92900	14900	
Benzyl Alcohol	ND		92900	19500	
1,2-Dichlorobenzene	ND		92900	9570	
2-Methylphenol	ND		92900	11200	
bis(2-Chloroisopropyl)ether	ND		92900	24200	
3- & 4-Methylphenol	ND		92900	13800	
N-nitroso-di-n-propylamine	ND		92900	10200	
Hexachloroethane	ND		92900	17700	
Nitrobenzene	ND		92900	12700	
Isophorone	ND		92900	13000	
2-Nitrophenol	ND		92900	13000	
2,4-Dimethylphenol	ND		92900	10200	
Benzoic Acid	ND		465000	31600	
bis(2-Chloroethoxy)methane	ND		92900	11200	
2,4-Dichlorophenol	ND		92900	10200	
1,2,4-Trichlorobenzene	ND		92900	7710	
Naphthalene		960000	9290	4350	
4-Chloroaniline	ND		92900	8640	
Hexachlorobutadiene	ND		92900	8360	
4-Chloro-3-methylphenol	ND		92900	10200	
2-Methylnaphthalene		383000	9290	1450	
Hexachlorocyclopentadiene	ND		92900	13100	

MKW use previous analyses

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103253L01 continued...

Analyte		Result (ug/kg)	PQL	MDL	
2,4,6-Trichlorophenol	ND		92900	12400	
2,4,5-Trichlorophenol	ND		92900	16700	
2-Chloronaphthalene	ND		9290	2790	
2-Nitroaniline	ND		92900	12100	
Dimethylphthalate	ND		92900	10200	
Acenaphthylene	ND		9290	4050	
2,6-Dinitrotoluene	ND		92900	16700	
3-Nitroaniline	ND		92900	15800	
Acenaphthene		13000	9290	4600	
2,4-Dinitrophenol	ND		232000	22300	
4-Nitrophenol	ND		232000	17700	
Dibenzofuran	ND		92900	10800	
2,4-Dinitrotoluene	ND		92900	12100	
Diethylphthalate	ND		92900	15800	
4-Chlorophenylphenylether	ND		92900	15600	
Fluorene		10200	9290	4340	
4-Nitroaniline	ND		92900	15800	
4,6-Dinitro-2-methylphenol	ND		232000	34400	
N-Nitrosodiphenylamine	ND		92900	7430	
4-Bromophenylphenylether	ND		92900	12400	
Hexachlorobenzene	ND		92900	10200	
Pentachlorophenol	ND		92900	19500	
Phenanthrene		26000	9290	1980	
Anthracene	ND		9290	2340	
Di-n-butylphthalate	ND		465000	80800	
Fluoranthene	ND		9290	4340	
Pyrene	ND		9290	3070	
Butylbenzylphthalate	ND		92900	17700	
3,3'-Dichlorobenzidine	ND		92900	10200	
Benzo(a)anthracene	ND		18600	5670	
Chrysene	ND		18600	5450	
bis(2-Ethylhexyl)phthalate	ND		232000	38100	
Di-n-octylphthalate	ND		92900	24200	
Benzofluoranthenes	ND		18600	4090	
Benzo(a)pyrene	ND		9290	5450	
Indeno(1,2,3-cd)pyrene	ND		9290	2170	
Dibenz(a,h)anthracene	ND		9290	2170	
Benzo(g,h,i)perylene	ND		9290	1530	
Carbazole	ND		232000	36200	
Atrazine	ND		92900	15800	
Biphenyl		26900	92900	15700	J
Acetophenone	ND		92900	10500	
Benzaldehyde	ND		92900	7870	

MW use previous analysis

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/10/02
Date Analyzed:	1/11/02
% Solids	
Dilution Factor	100

Semivolatile Organics by USEPA Method 8270

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Nitrobenzene - d5	101		45	135
2 - Fluorobiphenyl	65		51	135
p - Terphenyl - d14	60		45	135
Phenol - d5	95		43	140
2 - Fluorophenol	44		37	140
2,4,6 - Tribromophenol	35	X9	36	140

Sample results are on an as received basis.

Analyte		**Result (ug/kg)**	**PQL**	**MDL**	**Flags**
Phenol	ND		9890	1980	
bis(2-Chloroethyl)ether	ND		9890	1890	
2-Chlorophenol	ND		9890	1480	
2-Methylphenol	ND		9890	1190	
3- & 4-Methylphenol	ND		9890	1460	
N-nitroso-di-n-propylamine	ND		9890	1090	
Hexachloroethane	ND		9890	1880	
Nitrobenzene	ND		9890	1350	
Isophorone	ND		9890	1380	
2-Nitrophenol	ND		9890	1380	
2,4-Dimethylphenol	ND		9890	1090	
Benzoic Acid	ND		49400	3360	
bis(2-Chloroethoxy)methane	ND		9890	1190	
2,4-Dichlorophenol	ND		9890	1090	
Naphthalene		24500	989	463	
4-Chloroaniline	ND		9890	919	
Hexachlorobutadiene	ND		9890	890	
4-Chloro-3-methylphenol	ND		9890	1090	
2-Methylnaphthalene		2870	989	154	
Hexachlorocyclopentadiene	ND		9890	1390	
2,4,6-Trichlorophenol	ND		9890	1310	
2,4,5-Trichlorophenol	ND		9890	1780	
2-Chloronaphthalene	ND		989	297	
2-Nitroaniline	ND		9890	1290	
Dimethylphthalate	ND		9890	1090	
Acenaphthylene	ND		989	431	

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103253-02 continued...

Analyte		Result (ug/kg)	PQL	MDL
2,6-Dinitrotoluene	ND		9890	1780
3-Nitroaniline	ND		9890	1680
Acenaphthene	ND		989	489
2,4-Dinitrophenol	ND		24700	2370
4-Nitrophenol	ND		24700	1880
Dibenzofuran	ND		9890	1150
2,4-Dinitrotoluene	ND		9890	1290
Diethylphthalate	ND		9890	1680
4-Chlorophenylphenylether	ND		9890	1660
Fluorene	ND		989	462
4-Nitroaniline	ND		9890	1680
4,6-Dinitro-2-methylphenol	ND		24700	3660
N-Nitrosodiphenylamine	ND		9890	791
4-Bromophenylphenylether	ND		9890	1310
Hexachlorobenzene	ND		9890	1090
Pentachlorophenol	ND		9890	2080
Phenanthrene	ND		989	211
Anthracene	ND		989	249
Di-n-butylphthalate	ND		49400	8600
Fluoranthene	ND		989	462
Pyrene	ND		989	326
Butylbenzylphthalate	ND		9890	1880
3,3'-Dichlorobenzidine	ND		9890	1090
Benzo(a)anthracene	ND		1980	603
Chrysene	ND		1980	580
bis(2-Ethylhexyl)phthalate	ND		24700	4050
Di-n-octylphthalate	ND		9890	2570
Benzofluoranthenes	ND		1980	435
Benzo(a)pyrene	ND		989	580
Indeno(1,2,3-cd)pyrene	ND		989	230
Dibenz(a,h)anthracene	ND		989	230
Benzo(g,h,i)perylene	ND		989	163
Carbazole	ND		24700	3860
Atrazine	ND		9890	1680
Biphenyl	ND		9890	1670
Acetophenone	ND		9890	1110
Benzaldehyde	ND		9890	837

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/10/02
Date Analyzed:	1/11/02
% Solids	
Dilution Factor	100

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	-	X9	45	135
2 - Fluorobiphenyl	67		51	135
p - Terphenyl - d14	68		45	135
Phenol - d5	87		43	140
2 - Fluorophenol	-	X9	37	140
2,4,6 - Tribromophenol	65		36	140

Sample results are on an as received basis.

Analyte		Result (ug/kg)	PQL	MDL	Flags
Phenol	ND	R	9960	1990	
bis(2-Chloroethyl)ether	ND		9960	1900	
2-Chlorophenol	ND		9960	1490	
2-Methylphenol	ND		9960	1190	
3- & 4-Methylphenol	ND		9960	1470	
N-nitroso-di-n-propylamine	ND		9960	1100	
Hexachloroethane	ND		9960	1890	
Nitrobenzene	ND		9960	1360	
Isophorone	ND		9960	1390	
2-Nitrophenol	ND		9960	1390	
2,4-Dimethylphenol	ND		9960	1100	
Benzoic Acid	ND		49800	3390	
bis(2-Chloroethoxy)methane	ND		9960	1190	
2,4-Dichlorophenol	ND		9960	1100	
Naphthalene		83300 J	996	466	
4-Chloroaniline	ND	R	9960	926	
Hexachlorobutadiene	ND		9960	896	
4-Chloro-3-methylphenol	ND		9960	1100	
2-Methylnaphthalene		8170 J	996	155	
Hexachlorocyclopentadiene	ND	R	9960	1400	
2,4,6-Trichlorophenol	ND		9960	1320	
2,4,5-Trichlorophenol	ND		9960	1790	
2-Chloronaphthalene	ND		996	299	
2-Nitroaniline	ND		9960	1290	
Dimethylphthalate	ND		9960	1100	
Acenaphthylene	ND		996	434	

MW 3/20/02

STL Seattle

Semivolatile Organics by USEPA Method 8270 data for 103253-03 continued...

Analyte		Result (ug/kg)	PQL	MDL
2,6-Dinitrotoluene	ND		9960	1790
3-Nitroaniline	ND		9960	1690
Acenaphthene	ND		996	493
2,4-Dinitrophenol	ND		24900	2390
4-Nitrophenol	ND		24900	1890
Dibenzofuran	ND		9960	1160
2,4-Dinitrotoluene	ND		9960	1290
Diethylphthalate	ND		9960	1690
4-Chlorophenylphenylether	ND		9960	1670
Fluorene	ND		996	465
4-Nitroaniline	ND		9960	1690
4,6-Dinitro-2-methylphenol	ND		24900	3680
N-Nitrosodiphenylamine	ND		9960	797
4-Bromophenylphenylether	ND		9960	1320
Hexachlorobenzene	ND		9960	1100
Pentachlorophenol	ND		9960	2090
Phenanthrene	ND		996	212
Anthracene	ND		996	251
Di-n-butylphthalate	ND		49800	8660
Fluoranthene	ND		996	465
Pyrene	ND		996	329
Butylbenzylphthalate	ND		9960	1890
3,3'-Dichlorobenzidine	ND		9960	1100
Benzo(a)anthracene	ND		1990	607
Chrysene	ND		1990	585
bis(2-Ethylhexyl)phthalate	ND		24900	4080
Di-n-octylphthalate	ND		9960	2590
Benzofluoranthenes	ND		1990	438
Benzo(a)pyrene	ND		996	585
Indeno(1,2,3-cd)pyrene	ND		996	232
Dibenz(a,h)anthracene	ND		996	232
Benzo(g,h,i)perylene	ND		996	164
Carbazole	ND		24900	3880
Atrazine	ND		9960	1690
Biphenyl	ND		9960	1690
Acetophenone	ND		9960	1120
Benzaldehyde	ND		9960	844

MW 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/28/02
% Solids	
Dilution Factor	1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Tetrachloro-m-xylene	63		54	129
Decachlorobiphenyl	125		54	140

Sample results are on an as received basis.

Analyte		Result (mg/kg)		PQL	MDL	Flags
Aroclor 1016	ND			0.655	0.0721	
Aroclor 1221	ND			1.31	0.309	
Aroclor 1232	ND			0.655	0.246	
Aroclor 1242	ND			0.655	0.132	
Aroclor 1248	ND			0.655	0.132	
Aroclor 1254	ND			0.655	0.102	
Aroclor 1260	ND			0.655	0.102	
Aldrin	ND			0.0655	0.0283	
alpha-BHC	ND			0.0655	0.0204	
beta-BHC	ND			0.0655	0.0277	
delta-BHC	ND			0.0655	0.0252	
gamma-BHC (Lindane)	ND			0.0655	0.025	
Chlordane (technical)	ND			0.655	0.0923	
4,4'-DDD	ND			0.131	0.0127	
4,4'-DDE		0.387		0.131	0.0151	C1
4,4'-DDT	ND			0.131	0.017	
Dieldrin	ND			0.131	0.0215	
Endosulfan I	ND			0.0655	0.0279	
Endosulfan II		0.189	J	0.131	0.0253	~~C2~~
Endosulfan sulfate	ND			0.131	0.0238	
Endrin	ND			0.131	0.0236	
Endrin aldehyde	ND			0.131	0.0267	
Heptachlor	ND			0.0655	0.0226	
Heptachlor epoxide	ND			0.0655	0.0239	
Methoxychlor	ND			0.655	0.0902	
Endrin ketone	ND			0.131	0.0184	

MN 3/20/02

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103253-01 continued...

Analyte		Result (mg/kg)	PQL	MDL	Flags
Toxaphene	ND		6.55	0.411	
alpha-Chlordane	ND		0.0655	0.026	
gamma-Chlordane	ND		0.0655	0.0266	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/28/02
% Solids	
Dilution Factor	1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Tetrachloro-m-xylene	68.2		54	129
Decachlorobiphenyl	26.9	X9	54	140

Sample results are on an as received basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Aroclor 1016	ND	U	0.864	0.0951	
Aroclor 1221	ND		1.73	0.407	
Aroclor 1232	ND		0.864	0.325	
Aroclor 1242	ND		0.864	0.174	
Aroclor 1248	ND		0.864	0.174	
Aroclor 1254	ND		0.864	0.134	
Aroclor 1260	ND		0.864	0.134	
Aldrin	ND		0.0864	0.0373	
alpha-BHC	ND		0.0864	0.0269	
beta-BHC	ND		0.0864	0.0366	
delta-BHC	ND		0.0864	0.0332	
gamma-BHC (Lindane)	ND		0.0864	0.033	
Chlordane (technical)	ND		0.864	0.122	
4,4'-DDD	ND		0.173	0.0168	
4,4'-DDE	ND		0.173	0.0199	
4,4'-DDT	ND		0.173	0.0224	
Dieldrin	ND		0.173	0.0283	
Endosulfan I	ND		0.0864	0.0368	
Endosulfan II	ND		0.173	0.0334	
Endosulfan sulfate	ND		0.173	0.0314	
Endrin	ND		0.173	0.0312	
Endrin aldehyde	ND		0.173	0.0352	
Heptachlor	ND		0.0864	0.0298	
Heptachlor epoxide	ND		0.0864	0.0316	
Methoxychlor	ND		0.864	0.119	
Endrin ketone	ND		0.173	0.0243	

MW 3/20/02

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103253-02 continued...

Analyte		Result (mg/kg)	PQL	MDL	Flags
Toxaphene	ND	U5	8.64	0.542	
alpha-Chlordane	ND	↓	0.0864	0.0344	
gamma-Chlordane	ND		0.0864	0.0351	

MW 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/28/02
% Solids	
Dilution Factor	1

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
Tetrachloro-m-xylene	68.3		54	129
Decachlorobiphenyl	31.3	X9	54	140

Sample results are on an as received basis.

Analyte		**Result (mg/kg)**	**PQL**	**MDL**	**Flags**
Aroclor 1016	ND		0.888	0.0977	
Aroclor 1221	ND		1.78	0.418	
Aroclor 1232	ND		0.888	0.334	
Aroclor 1242	ND		0.888	0.178	
Aroclor 1248	ND		0.888	0.178	
Aroclor 1254	ND		0.888	0.138	
Aroclor 1260	ND		0.888	0.138	
Aldrin	ND		0.0888	0.0383	
alpha-BHC	ND		0.0888	0.0276	
beta-BHC	ND		0.0888	0.0376	
delta-BHC	ND		0.0888	0.0341	
gamma-BHC (Lindane)	ND		0.0888	0.0339	
Chlordane (technical)	ND		0.888	0.125	
4,4'-DDD	ND		0.178	0.0173	
4,4'-DDE	ND		0.178	0.0204	
4,4'-DDT	ND		0.178	0.023	
Dieldrin	ND		0.178	0.0291	
Endosulfan I	ND		0.0888	0.0378	
Endosulfan II	ND		0.178	0.0343	
Endosulfan sulfate	ND		0.178	0.0323	
Endrin	ND		0.178	0.032	
Endrin aldehyde	ND		0.178	0.0362	
Heptachlor	ND		0.0888	0.0306	
Heptachlor epoxide	ND		0.0888	0.0324	
Methoxychlor	ND		0.888	0.122	
Endrin ketone	ND		0.178	0.025	

MW 3/20/02

STL Seattle

Organochlorine Pesticides and PCBs by USEPA Methods 8081A/8082 data for 103253-03 continued...

Analyte		Result (mg/kg)	PQL	MDL	Flags
Toxaphene	ND	U J	8.88	0.557	
alpha-Chlordane	ND	↓	0.0888	0.0353	
gamma-Chlordane	ND		0.0888	0.0361	

mw 3/20/02

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

Analyte		Result (mg/kg)	PQL	MDL	Flags
Calcium		114	282	1.73	J
Iron		52.2	28.2	5.71	
Lead		95000	2.82	1.52	
Magnesium		7.25	282	2.81	J
Potassium	ND		564	13.7	
Sodium	ND		282	204	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	5

Metals by ICP-MS - USEPA Method 6020

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Arsenic	ND	0.705	0.217	
Aluminum	118	14.1	7.05	
Antimony	0.85	4.23	0.0283	J
Barium	0.881	0.705	0.132	
Beryllium	0.0747	0.141	0.062	J
Cadmium	0.199	0.705	0.117	J
Chromium	1.68	1.41	0.0672	
Cobalt	62.9	0.705	0.0531	
Copper	624	1.41	0.114	
Manganese	36.3	0.705	0.0317	
Nickel	0.266	1.41	0.104	J
Selenium	ND	4.23	0.545	
Silver	13.2	0.705	0.0684	
Strontium	1	0.705	0.025	
Thallium	0.303	0.705	0.0667	J
Vanadium	0.482	1.41	0.205	J
Zinc	5.35	5.64	0.256	J
Uranium	ND	0.0705	0.0705	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-001
Lab ID:	103253-01
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/20/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7471

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Mercury	ND	0.0198	0.013	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Calcium	3390	321	1.97	
Iron	91.3	32.1	6.51	
Magnesium	140	321	3.21	J
Potassium	10300	643	15.6	
Sodium	4970	321	233	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	5

Metals by ICP-MS - USEPA Method 6020

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Arsenic	ND	0.804	0.247	
Aluminum	12.2	16.1	8.04	J
Antimony	0.0723	4.82	0.0323	J
Barium	1.47	0.804	0.15	
Beryllium	ND	0.161	0.0707	
Cadmium	ND	0.804	0.134	
Chromium	0.725	1.61	0.0767	J
Cobalt	2.8	0.804	0.0606	
Copper	0.665	1.61	0.131	J
Lead	11.5	0.804	0.0373	
Manganese	20	0.804	0.0362	
Nickel	0.217	1.61	0.118	J
Selenium	ND	4.82	0.621	
Silver	0.133	0.804	0.0779	J
Strontium	2.98	0.804	0.0284	
Thallium	ND	0.804	0.076	
Vanadium	ND	1.61	0.234	
Zinc	2.88	6.43	0.292	J
Uranium	ND	0.0804	0.0804	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-002
Lab ID:	103253-02
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/20/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7471

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Mercury	ND	0.0199	0.0131	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Calcium	3530	268	1.64	
Iron	85	26.8	5.42	
Magnesium	141	268	2.67	J
Potassium	9510	536	13	
Sodium	4690	268	194	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/11/02
Date Analyzed:	1/11/02
Dilution Factor	5

Metals by ICP-MS - USEPA Method 6020

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Arsenic	ND	0.67	0.206	
Aluminum	8.39	13.4	6.7	J
Antimony	0.273	4.02	0.0269	J
Barium	1.95	0.67	0.125	
Beryllium	ND	0.134	0.0589	
Cadmium	ND	0.67	0.112	
Chromium	1.08	1.34	0.0639	J
Cobalt	2.88	0.67	0.0505	
Copper	1.24	1.34	0.109	J
Lead	116	0.67	0.0311	
Manganese	22.1	0.67	0.0301	
Nickel	0.157	1.34	0.0984	J
Selenium	ND	4.02	0.517	
Silver	0.129	0.67	0.0649	J
Strontium	3.17	0.67	0.0237	
Thallium	ND	0.67	0.0633	
Vanadium	0.309	1.34	0.195	J
Zinc	1.79	5.36	0.243	J
Uranium	ND	0.067	0.067	

STL Seattle

Client Name	URS Corporation
Client ID:	PD-302
Lab ID:	103253-03
Date Received:	1/9/02
Date Prepared:	1/17/02
Date Analyzed:	1/20/02
Dilution Factor	1

Mercury by CVAA - USEPA Method 7471

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	MDL	Flags
Mercury	ND	0.0198	0.013	

STL Seattle

Client Name	URS Corporation
Project Name	Former NPD Lab SI, Troutdale, OR
Date Received	01-09-02

General Chemistry Parameters

Client Sample ID			PD-001		
Lab ID			103253-01		
Parameter	**Method**	**Date Analyzed**	**Units**	**Result**	**PQL**
Cyanide	EPA 9012 / 9013	01-15-02	mg/kg	ND UH	0.2
Flash Point	EPA 1010	01-21-02	°F	115	N/A
pH	EPA 9040	01-17-02	N/A	5.19	N/A
Reactive Cyanide	Chap. 7.3.3	01-18-02	mg/kg	ND UH	20
Reactive Sulfide	Chap. 7.3.4	01-15-02	mg/kg	ND U	20

Client Sample ID			PD-002		
Lab ID			103253-02		
Parameter	**Method**	**Date Analyzed**	**Units**	**Result**	**PQL**
Cyanide	EPA 9012 / 9013	01-15-02	mg/kg	ND UH	0.2
Flash Point	EPA 1010	01-21-02	°F	104	N/A
pH	EPA 9040	01-17-02	N/A	6.05	N/A
Reactive Cyanide	Chap. 7.3.3	01-18-02	mg/kg	ND U	20
Reactive Sulfide	Chap. 7.3.4	01-15-02	mg/kg	ND U	20

Client Sample ID			PD-302		
Lab ID			103253-03		
Parameter	**Method**	**Date Analyzed**	**Units**	**Result**	**PQL**
Cyanide	EPA 9012 / 9013	01-15-02	mg/kg	0.41 J	0.2
Flash Point	EPA 1010	01-21-02	°F	106	N/A
pH	EPA 9040	01-17-02	N/A	6.11	N/A
Reactive Cyanide	Chap. 7.3.3	01-18-02	mg/kg	ND U	20
Reactive Sulfide	Chap. 7.3.4	01-15-02	mg/kg	ND U	20

MN 3/20/02